Work Order May-01-13 7:29:4		00863		*100	863*	4 F 44 . 14 . 4		-			Page 1
Revision ID: ltem Name: D	03208-1 Poubler	Start Qty: 6.00	*6*	Accept	*N900		100*	Se	tup Start	*N: *N:	S1* S2*
Required Date: 4/		Req'd Qty: 6.00	***	***	Customer		·				
	Process P	lan: M しろ	Date: <u>13-05-0</u>	Tooling:SPC (Y/N):	f.	Date:	<del>-</del> 	Rı	un Start Stop	!/	R1* R2*
Sequence ID/ Work Center ID		Operation Description		Set Up/ Run Hours	Tool ID	Tool#	Plan A Code Q	ccept ty		Reject Number	Insp. Stamp
Draw Nbr D3208 100 *100* Waterjet FLOW CNC Waterjet	С	SHEAR  Memo 1-Cut as p Dwg Rev: Prog Rev: 2-Deburr i	<u> </u>	0.00				7	ပ		Ac. 13.07.23
*110* QC Quality Control		QC2- Inspect parts off Small Fab Memo	machine FAI/FAIB	0.00				.7	0		Ac 13,07,24
115 *115* QC Quality Control		QC8- Inspect parts - se	econd check	0.00 AS 0.00 27 13.7	94			1		. <del></del>	

												DQA:	Dat	e:	
NCR: Y	'es	/ No					WORK ORDER NON-	COI	NFORM	AANCE / UP	PDATE		<del></del>		
												QA Closed:	Dat	е:	
Nork Orde	er:						DISPOSITION		AGAINST DEPARTMENT/PROCESS						
	_						Rework	7		Skid-tube	Crosstube		Water Jet		Engineering
Part N	lo.						Scrap	1	ľ	Machining	Small Fab	Pro	d. Eng. Coor.		Quality
	-					1	Use-as-is	]	Thern	noforming	Finishing	Rec/Sto	re/Packaging[		Other
NCR N	io.						Work Order Update	]		Large Fab	Composite	]	Supplier		
		_		. ,		_			<u> </u>			T a. a	ī	—	,:
Root		<b>.</b> .	٠		Desc		otion of work order update	1	Initial		ction	Sign &	\	_	OC luamantan
Cause	$\dashv$	Date	Step	Qty		0	r Non-conformance	Cr	nief Eng	Desc	cription	Date	Verification	늬	QC Inspector
oc/Data															
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Landi		1					General		,		_	_	-		•
	-	Bending			ļ		Bend	L	Grain		<u> </u>	Ovalized		$\dashv$	Pressure/Forced
	-	Centre No	ot Concer	ntric to (	o/s		BOM/Route		Hardwa		_	Over/Under		$\neg$	Temperature/Cure
	-	Cracks			,		Broken/Damaged	_	4	on Incomplete		Part Incorre	- F	-	Weld
	Ι	Crushed/0	Crimped		,		Burrs		1	ions Incomplete/	/Unclear	Part Lost/Mi	issing [		Wrong Stock Pulled
	$\vdash$	Cuffs					Contamination	_	Mainte		<u> </u>	Part Moved			
,	_	Heat Trea					Countersink	_	Mislabe		<u> </u>	Positioned V	· ·		lou
	-	Inspection		Tube			Cut Too Short	$\vdash$	Misread	I	<u>L</u>	Power Loss/	2nuge [		Other
		Ripples in			_		Drill Holes	$\vdash$	Offset	`alibuatia-					
!		Turning S			n		Drawing Finish	-	<b>-</b> 1	Calibration		<del></del>			
		, i 117 MING 📏	HOLLEDCE.				45110ND		TOTAL CITY						

Öutside Dimensions

Wave/Twist in Tube

Folio

Work Orde May-01-13 7:29		00863		*100	ใกล้		<u></u>	Page 2
	D3208-1 Doubler			Accept	*N9000	· ·	Setup Si	tart *NS1*
Start Date: Required Date: Reference:	4/30/13 4/30/13	Start Qty: 6.00 Req'd Qty: 6.00	*6* *6*	+7	Cust Item ID: Customer:			
Approvals:		lan:	Date:		Date:			*NR1* *NR2*
Sequence ID/ Work Center II 120 *120* Brake NC Brake NC	<b>D</b>	Operation Description Bend as per dwg NC BRAKE Memo	<del></del>	Set Up/ Run Hours 0.00	Tool ID To	ool# Plan Accep Code Qty	t Reject Qty	Reject Insp. Number Stamp
*130 *130* QC Quality Control		QC5- Inspect part complete  Memo	ness to step on W/O	0.00	DY	7		· <i>- ·</i>
*140 *140* HandFinish Hand Finishing		Chemical Conversion Coat  Memo	per QS1005 4.1	0.00		P	7	6 13730

												DQA:	Da	ite:	
NCR:	Yes	/ No				WORK ORDER NON-O	COI	NFORM	MANCE / UP	DATE		,			
									_			QA Closed:	Da	ite:	<u>.</u> .
Work Orde	A.F.					DISPOSITION				AGAINST (	DE	PARTMENT	PROCESS		
WOIK CIU	E1.				••	Rework	7		Skid-tube	Crosstube	_	1	Water Jet		Engineering
Part I	No.					Scrap	Machining Small Fab Prod. Eng. Coor.					Quality			
						Use-as-is					Other				
NCR I	No.					Work Order Update	1 !		Large Fab	Composite		1	Supplier	_	
							_			_					
Root					Descri	ption of work order update		Initial	Act	tion		Sign &			
Cause		Date	Step	Qty	(	or Non-conformance	Ch	nief Eng	Desci	ription		Date	Verificatio	<u>n</u>	QC Inspector
Doc/Data			1		1										
Equip/Tooling				İ			1								}
Operator															
Material															
Setup															
Other								i							
Process			ļ				ļ								
Supplier			}												:
Training			ĺ												
Unapproved															
						F	AUI	LT CATE	GORY						
Landi	ng (	ear				General		٠.	<u>.</u>	_				_	_
		Bending				Bend		Grain		[		Ovalized			Pressure/Forced
	Centre Not Concentric to O/S BOM/Route			BOM/Route		Hardwa	re			Over/Under	tolerance		Temperature/Cure		
		Cracks				Broken/Damaged		Inspecti	on incomplete			Part Incorred	t		Weld
	Crushed/Crimped Burrs				Instructions Incomplete/Unclear			Part Lost/Missing		Wrong Stock Pulled					

Maintenance

Out of Calibration

Out of Sequence

Outside Dimensions

Mislabeled

Misread

Offset

Contamination Countersink

Cut Too Short Drill Holes

Drawing

Finish

Folio

Part Moved

Positioned Wrong

Power Loss/Surge

Other

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Turning Sequence

Wave/Twist in Tube

Ripples in Bend

Cuffs

Heat Treat

Inspection Strip in Tube

Torque Waves in Extrusion

Work Orde		0863		*100	863*	t	-	Page 3
Item ID: Revision ID: Item Name:	D3208-1	. · · · · · · · · · · · · · · · · · · ·	. <del></del> .	Accept	*พุ่ดกกก	40100*	Setup Start Stop	*NS1* *NS2*
Start Date: Required Date: Reference:	4/30/13 : 4/30/13	Start Qty: 6.00 Reg'd Qty: 6.00	*6* *6*	· · · · · · · · · · · · ·	Cust Item ID: Customer:		Run Start	
Approvals:	Process Pla	-	Date:	Tooling:	Date:		Stop	*NR1*
	QC:		Date:	SPC (Y/N):	Date:		<b>p</b>	*NR2*
Sequence ID/ Work Center I	D	Operation Description QC7-Inspect Chemical Con	iversion Coat	Set Up/ Run Hours 0.00	Tool JD To	ool # Plan Acce Code Qty		Reject Insp. Number Stamp
*150* QC Quality Control		Мето	/	0.00		<del></del>		P/o->
160		Identify as per dwg & Stock	k Location:	0.00				
*160* Packaging Packaging		Memo		6.00			<del>-</del>	
170		QC21-Final Inspection - W	Vork Order Release	0.00				
*170* QC Quality Control	(	Memo		0.00		,	MC 134	SB-09
							しか	7-2

NCR: Yes / No

## **WORK ORDER NON-CONFORMANCE / UPDATE**

DOA: Aut Date: 13/08/13

	CA Closed // V Bate. ( )// X )											
Work Ordor	kar Lar	1008	12		DISPOSITION				AGAINST DE	PARTMENT	PROCESS	
	D 37	208-	1	<u> </u>	Rework Scrap Use-as-is Work Order Update			Skid-tube  Machining  noforming  Large Fab	Crosstube Small Fab Finishing Composite		Water Jet d. Eng. Coor. re/Packaging Supplier	© Engineering Quality Other
Root					ption of work order update		nitial	Actio		Sign &		
Cause	Date	Step	Qty		or Non-conformance	—	ief Eng	Descrip	otion	Date	Verification	QC Inspector
Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier Training Unapproved	3/01/34	100	۲	دام د	mod.  not vedes only  ale em	87	10/20 10/20 10/20	All FAMDS  Into instruction  Structural  Abox	comp ifferi	Az 13.08.01	0AS 16 18/06/01	0250 16 607-042 13/0/30
		-			F	AUL'	T CATE	GORY				
Landing	Gear				General	_				•		_
-	Bending Centre No	ot Concei	ntric to	o/s	Bend BOM/Route	$\vdash$	Grain Hardwa	ıre	<u> </u>	Ovalized Over/Under	tolerance	Pressure/Forced Temperature/Cure
	Cracks				Broken/Damaged	П	Inspect	ion Incomplete		Part Incorrec	t [	Weld
	Crushed/	Crimped			Burrs		Instruct	tions Incomplete/Un	ıclear	Part Lost/Mi	ssing	Wrong Stock Pulled
	Cuffs				Contamination		Mainte	enance		Part Moved		_
	Heat Treat Countersink			Mislabe	eled		Positioned W	/rong	<b></b>			
	Inspection Strip in Tube Cut Too Short			Misread	<del>d</del>		Power Loss/S	Surge	Other			
	Ripples in Bend Drill Holes			Offset								
Torque Waves in Extrusion Drawing				Out of 0	Calibration							
Turning Sequence Finish			Out of Sequence									
Wave/Twist in Tube Folio				Outside	Dimensions							

## **Picklist Print**

May-01-13 7:29:43 AM

Work Order ID:

100863

Parent Item:

D3208-1

Parent Item Name:

Doubler

Start Date: 4/30/13

Required Date: 4/30/13

Start Qty: 6.00

Required Qty: 6.00

Comments:

IPP: B04.05.25Material changed for Step 4KJ/JLM IPP REV B:PER REV B 12-03-23 JLM VERIFIED BY:EC IPP REV:C 12.04.20 as per dwg rev.C DD verf:EC

	JEM VEKILIED D	OI.EC I	IFF KEV.C	12.04.20 as p	ici awa icv.C	DD (011.12C							
Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M2024T3S.040 2024-T3 .040 sheet		Purchased	No	_ <del></del>		100	sf	458.6877	0.1645 	1.0389474 <b>263</b> 50	Ach	13.0	57·23
				<u>Location</u>		Loc Qty	<u>Lo</u>	c Code			<b>美</b>		
				MAT022		458.6876922					1.	2	
				120	505	65.8254832							
				121	197	57.187894			-				
				122	136	31.78							
				123	217	24.394315							
				124	987	279.5				<del></del>			

NCR: Yes / No	WORK ORDER NON-CONFORMANCE / UPDATE										
			QA	Closed:							
Work Order:	DISPOSITION		AGAINST DEPAR	TMENT/PRO							
	Rework	Skid-tube	Crosstube	W							
Part No.	Scrap	Machining	Small Fab	Prod. En							

Use-as-is

Work Order Update

Description of work order update

or Non-conformance

General

Bend

Burrs

BOM/Route

Contamination

Countersink

Cut Too Short Drill Holes

Drawing

Finish

Folio

Broken/Damaged

Qty

Step

Centre Not Concentric to O/S

Thermoforming

Initial

Chief Eng

**FAULT CATEGORY** 

Grain

Hardware

Misread

Offset

Maintenance Mislabeled

Out of Calibration
Out of Sequence

**Outside Dimensions** 

Inspection Incomplete

Instructions Incomplete/Unclear

Large Fab

QA Closed:	Date	:
EPARTMENT,	/PROCESS	
<del>-</del>	Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
Sign & Date	Verification	QC Inspector
Ovalized Over/Under Part Incorred Part Lost/Mi Part Moved Positioned V Power Loss/	et ssing	Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled Other

Date:

DQA:

Finishing

Composite

Action

Description

Turning Sequence

Wave/Twist in Tube

Ripples in Bend

NCR No.

**Landing Gear** 

Bending

Cracks

Cuffs

**Heat Treat** 

Crushed/Crimped

Inspection Strip in Tube

Torque Waves in Extrusion

Date

Root

Cause
Doc/Data
Equip/Tooling
Operator
Material
Setup
Other
Process
Supplier
Training
Unapproved

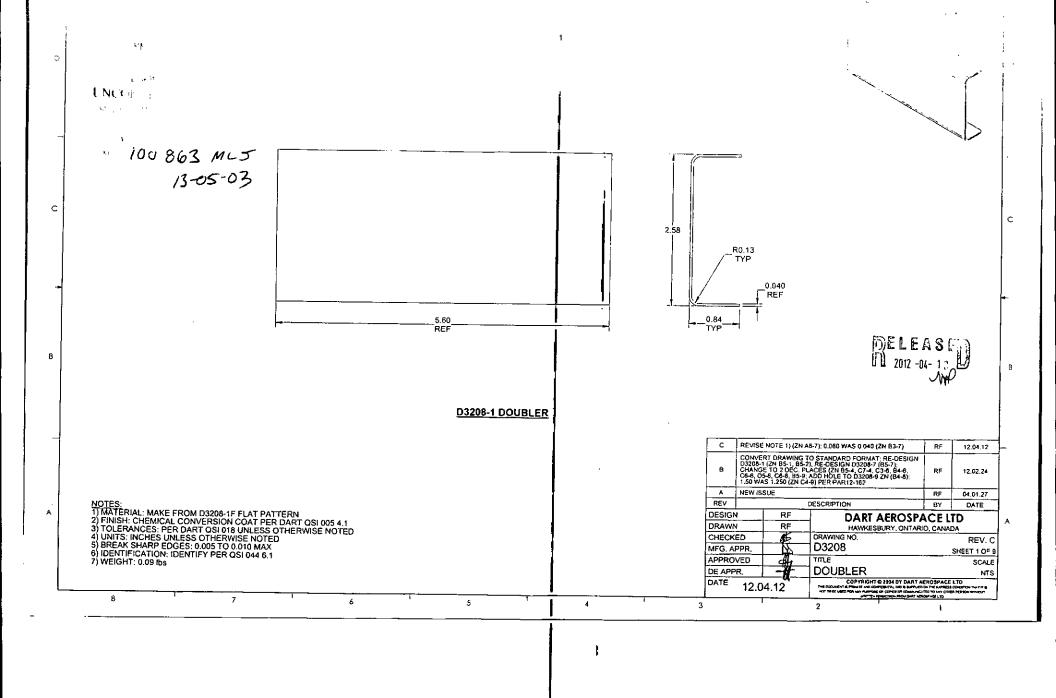
DART AEROSPACE LTD	Work Order:	100863
Description: Doubler	Part Number:	D3208-1
Inspection Dwg: D3208 Rev: C		Page 1 of 1

## FIRST ARTICLE INSPECTION CHECKLIST

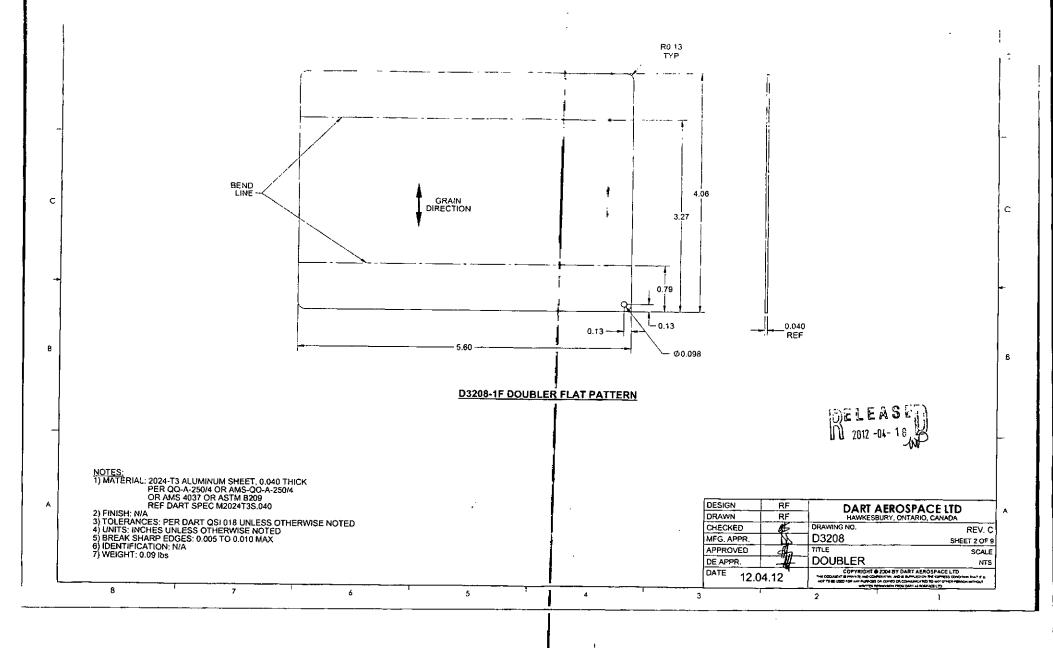
Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
Ø0.098	+0.005/-0.001	.098	-		V	JKM-01
0.13	+/-0.030	,13	_		V	
4.06	+/-0.030	4.06	-		V	
5.60	+/-0.030	5.60	_	**	V	
0.040	+/-0.010	0,040	_		V	
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			21		-	

Meas	ured by:	<u> </u>	Audited by: 2	) 1	Preliminary Approval:	
	Date: ,	3.07.a4	Date: B	124	Date:	
Rev	Date	Change			Revised by	Approved
Α	12.05.22	New Issue			KJ 🛠	<i>                                   </i>

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